

# Alaska Shield 2014 Hazmat Symposium and Field Exercise

April 1-3, 2014

Kodiak, Alaska

## Participant Manual



Municipality of Anchorage



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SPILL PREVENTION AND RESPONSE  
PREVENTION AND EMERGENCY RESPONSE PROGRAM

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# Introduction:

The Alaska Shield 2014 Hazmat Symposium and Field Exercise will be conducted on April 1-3, 2014 in Kodiak, Alaska. The Symposium will be April 1-2 at the Kodiak Harbor Convention Center. The Field Exercise will be April 3 at the Kodiak City Dock. The theme of this event is the 50<sup>th</sup> anniversary of the 1964 Alaska Earthquake. The purpose of the event is to increase the emergency preparedness level of response personnel by providing them with additional knowledge and skills to address a variety of potential Hazmat release situations that could result from a catastrophic earthquake.

The symposium will provide classroom style presentations on subjects including: Statewide Hazmat Team Activation; Hazmat Size-Up; Hazardous Materials Sampling; Intermodal Tanks; a panel discussion on Hazmat Fires including case histories; and a full day of Ammonia Response training. The instruction will be provided through lectures, interactive activities, and demonstration components.

The last day of the event will be a field exercise for the Statewide Hazardous Materials Response Team (Level A Teams) to suit-up and perform actual responses to simulated Hazmat releases. The exercise will simulate extremely hazardous substance (EHS) releases from a catastrophic earthquake. Those attendees not part of a Level A Team are welcome to observe the field exercise that will take place at the Kodiak City Dock.

Participants in the event are members of the Statewide Hazardous Materials Response Team, and include:

- Kodiak Hazmat Team
- Anchorage Hazmat Team
- Fairbanks Hazmat Team
- Juneau Hazmat Team
- Ketchikan Hazmat Team
- 103<sup>rd</sup> Civil Support Team (CST)
- EPA Emergency Response Team
- Alaska Dept of Environmental Conservation (DEC)

Other participants include:

- Kodiak Fire Department
- US Coast Guard Fire Department - Kodiak
- Sitka Fire Department / Hazmat Team
- Mat-Su Fire Department / Hazmat Team
- Division of Homeland Security and Emergency Management (DHS&EM)

# AK Shield 2014 Hazmat Symposium

## Agenda

### DAY 1: Tuesday April 1

Time	Presentation Topic	Presenter
0800-0815	Opening Remarks and Guest Speaker	Alan Wien – DEC & ?
0815-0830	Introductions Around the Room	
0830-0845	Hazmat Awareness Self-Paced Course & Refresher	Allen Hulse – DHS&EM
0845-0900	Statewide Hazmat Team Activation Process	Mark Sielaff – DEC
0900-0915	<b>Break</b>	
0915-1130	Hazmat Size-Up	Don Werhonig – FAI Hazmat
1130-1300	<b>Lunch (on your own)</b>	
1300-1400	Hazmat Sampling – Pre-Entry Refresher	Jared Gailey – 85 <sup>th</sup> CST Utah
1400-1415	<b>Break</b>	
1415-1515	Intermodal Tanks	Tyler Bones – FAI Hazmat
1515-1530	<b>Break</b>	
1530-1655	Hazmat Fire (panel discussion with Hazmat team leads)	ADQ, FAI, ANC, JNU, KTN
1655-1700	Recap Day 1. Overview Day 2.	Alan Wien – DEC

### Day 2: Wednesday April 2: Ammonia Response

Time	Presentation Topic	Presenter
0800-0830	Registration and Introductions	Jake Lazzenby – iWorkWise
0830-1000	Case Studies	
1000-1020	<b>Break</b>	
1020-1145	Ammonia Chemical/Physical Properties, Hazards, Release Behavior	
1145-1300	<b>Lunch (on your own)</b>	
1300-1430	Refrigeration Systems, Types of Releases, Release Mitigation, Monitoring	Jake Lazzenby – iWorkWise
1430-1450	<b>Break</b>	
1450-1630	Scenarios	
1630-1700	Summary, Tests, Evaluations	
1700-1710	<b>Break</b>	
1710-1745	Field Exercise Participant Briefing for Day 3	Alan Wien – DEC
1745-1815	Controller/Facilitator Briefing	Alan Wien – DEC

### Day 3: Thursday April 3

Time	Hazmat Field Exercise	Presenter
0900-1600	Functional Hazmat Exercise – Kodiak City Dock	
1800-1900	Exercise Debrief and Critique – Best Western Hotel – Harbor Room	Alan Wien – DEC

## **Field Exercise:**

### **Objectives:**

This Hazmat exercise is intended to be a training opportunity for members of the Statewide Hazardous Materials Response Team. This is not a test or evaluation of any team or individual capability. There is no passing or failing of any aspect of this exercise.

The major objectives of this exercise are to:

- Increase the emergency preparedness level of emergency response personnel.
- Integrate Statewide Hazmat Response Team members in responding to EHS releases.
- Provide a joint training opportunity for the Statewide Hazmat Response Team members to work together and further promote close coordination for a seamless response effort.
- Improve working relationships between Statewide Hazmat Response Team members.
- Improve working relationships with Federal and other Hazmat response partners.

### **Scenario:**

A catastrophic earthquake and numerous aftershocks have hit south-central Alaska causing extensive damage in various communities. The City of Kodiak has experienced hazardous substance releases at the city dock area. The Kodiak Fire Department is first on scene and requests assistance from the Kodiak Hazmat Team for response to the incident.

The Kodiak Hazmat Team has called DEC for assistance in activating the Statewide Hazmat Response Teams. DEC has activated and deployed the Statewide Hazmat Teams from Anchorage, Fairbanks, Juneau, and Ketchikan. DEC has also requested assistance from the US Coast Guard Kodiak Fire Department, Sitka Hazmat Team, EPA Emergency Response Team, and the Alaska National Guard 103<sup>rd</sup> CST for Hazmat response support. The State Emergency Operations Center (SEOC) has activated and deployed the 103<sup>rd</sup> CST.

The hazardous substance releases consist of the following:

1. Two separate releases of anhydrous ammonia from the compressor room of the Trident Seafood processing facility.
2. Two abandoned mobile laboratories in the city dock parking lot. Both have been shaken by the earthquake and are emitting noxious fumes.
3. Two areas containing 55-gallon drums of an unknown liquid hazardous substance. Drums have fallen over onto their sides with some leaking. One victim lies unconscious among the drums at each site.

## Pre and Post Field Exercise Briefings:

A field exercise participant pre-exercise briefing will occur on Wednesday, April 2, at 5:10pm in the Convention Center conference room. All participants should plan to attend this briefing to review the exercise schedule and activities for the following day.

A field exercise participant post-exercise briefing will occur on Thursday, April 3, at 6:00pm in the Harbor Room at the Best Western Kodiak Inn. All participants should plan to attend this briefing to discuss comments, lessons learned, and fill out participant feedback forms.

## General Safety:

Kodiak Fire Department will designate a Safety Officer for this exercise.

Safety is everyone's responsibility. Observe and enforce safety practices at all times. If you observe an unsafe act or condition, immediately call a "Stop Exercise" and notify the nearest Controller, Safety Officer or Incident Commander and then other individuals on scene.

In the event of a real emergency, the Safety Officer and on-scene medical staff will address the emergency. Exercise activity will resume once the emergency is under control.

In this exercise, **everyone is a Safety Observer**. With the large number of attendees from various organizations compressed into a dedicated area, a key role in your activities throughout the exercise will be to constantly be on watch for hazards and conditions or activities that may cause injury.

## Ground Rules:

1. Safety is first.
2. Participants should take actions they would normally take as if in a real event.
3. Exercise injects will be provided by Controllers or Facilitators as necessary to add realism to the exercise (e.g., air monitoring readings, current/on-going status of Hazmat releases, etc.).
4. Observers and Evaluators are not to interfere with the exercise activities, with the exception of Safety. Coaching may be conducted by Controllers as necessary to provide clarification on the situation or to provide on-the-spot training.
5. All communications, both verbal and written, will state "THIS IS AN EXERCISE".

## Assumptions:

- Other AK Shield scenarios, inputs, and activities will not impact this exercise.
- Weather conditions will be real time.
- All necessary notifications and requests for assistance have been made.
- All support assets have arrived on scene and are set up.
- All response personnel have been medically monitored.
- Time compression of the exercise is necessary in order to have participants readily available and to maximize the training benefits (e.g., as opposed to actual activation and deployment of teams from their home station).

## Field Exercise Schedule:

### Actual Play (April 3, 2014)

**0730-0800** All participants begin arriving at the Kodiak City Dock site to begin actual setup [equipment staging, shelter tents, generators, heaters, lighting, onsite command post, hazmat props, decon, etc].

**0845** Safety briefing to all participants by the Kodiak FD Safety Officer.

**0900** Hazmat teams begin Level A entries. See Entry Team Rotation Timeline on page 12.

- 6 separate release sites – See exercise site plan diagram on page 9.
  - 2 for ammonia release.
  - 2 for mobile labs.
  - 2 for unknown chemical drums on ground.
  - 1 HAZCAT demonstration center (non suit-up).

**1200** Lunch will be delivered to the site and available in the shelter tents.

**1300** Continue Level A entries per Entry Team Rotation Timeline.

**1600** Scheduled completion of Level A entries. Begin demobilization.

**1800** Participant debrief and exercise evaluation at Best Western Kodiak Inn, Harbor Room.

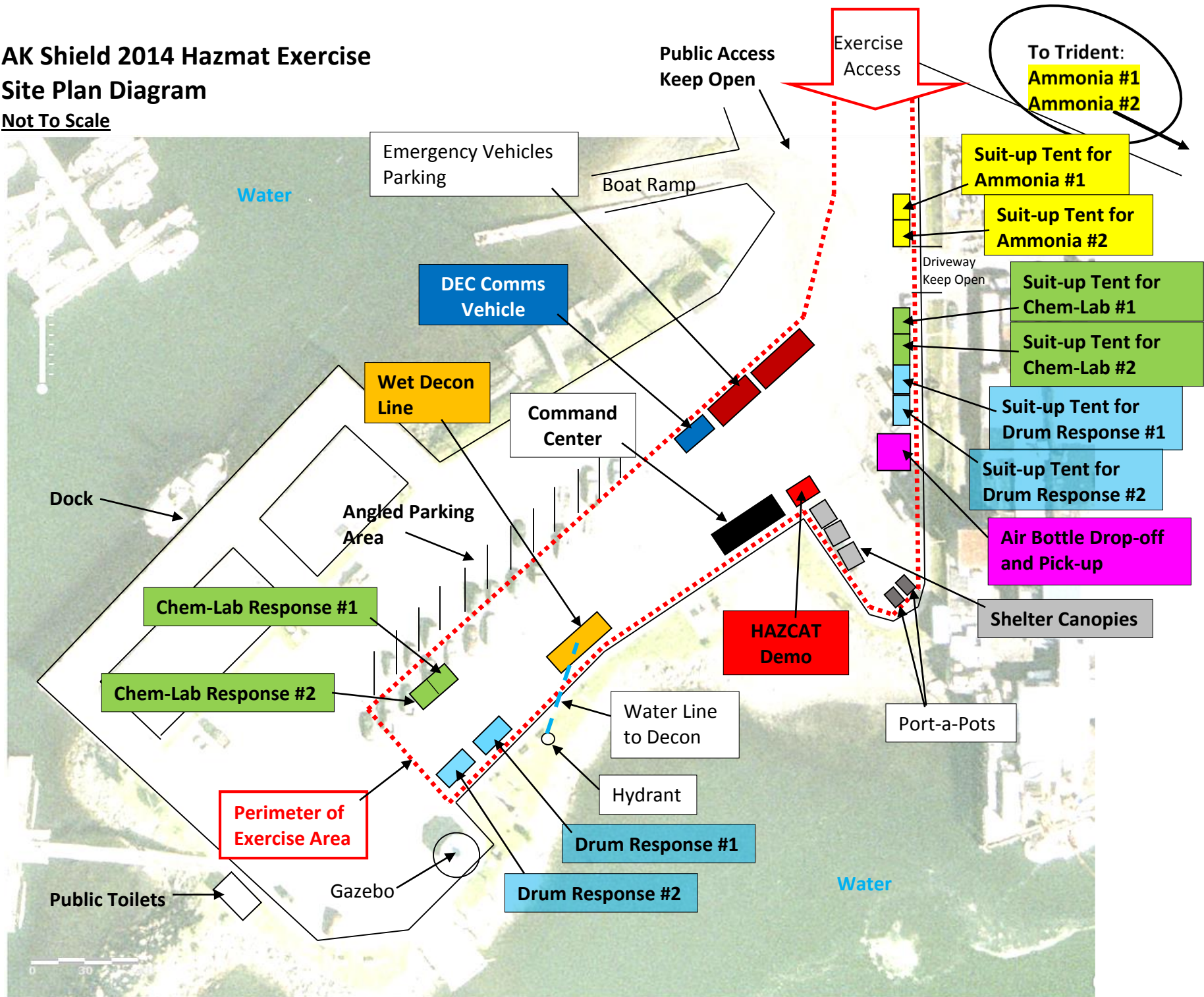
**Alaska Shield 2014  
Hazmat Symposium & Exercise  
Kodiak, AK**





# AK Shield 2014 Hazmat Exercise Site Plan Diagram

Not To Scale



## Level A Team Composition & DECON:

TEAM #	FAI (3)	103 <sup>rd</sup> (5)	EPA (3)	ADQ (6)	JNU (5)	KTN (2)	ANC (4)	Sitka (1)	Mat-Su (3)
1		X	X				X		
2	X			X			X		
3		X				X	X		
4	X		X		X				
5				X	X		X		
6					X	X		X	
7		X	X	X					
8	X			X	X				
9		XX		X	X				
DECON				X					XXX

<b>AK Shield 2014 Hazmat Exercise Level A Team Assignments</b>	
<b>TEAM #1</b>	- 103 <sup>rd</sup> : <b>Michael Buck</b> - EPA: <b>Bob Whittier</b> - Anchorage: <b>Ian Buness</b>
<b>TEAM #2</b>	- Fairbanks: <b>Ryan Holland</b> - Kodiak: <b>Frank Dorner</b> - Anchorage: <b>Jason Dolph</b>
<b>TEAM #3</b>	- 103 <sup>rd</sup> : <b>Jon Lewis</b> - Ketchikan: <b>Frank Divelbiss</b> - Anchorage: <b>Patrick O'Shea</b>
<b>TEAM #4</b>	- Fairbanks: <b>Lisa Smith</b> - EPA: <b>Brad Martin</b> - Juneau: <b>Sam Russell</b>
<b>TEAM #5</b>	- Kodiak: <b>Dan Farmer</b> - Juneau: <b>Joe Mishler</b> - Anchorage: <b>David Kroening</b>
<b>TEAM #6</b>	- Juneau: <b>Louis Tagaban</b> - Ketchikan: <b>Andy Tighe</b> - Sitka: <b>Joe Danon</b>
<b>TEAM #7</b>	- 103 <sup>rd</sup> : <b>Andrew Markham</b> - EPA: <b>David Burford</b> - Kodiak: <b>Robert Juhlin</b>
<b>TEAM #8</b>	- Fairbanks: <b>Liz Werhonig</b> - Kodiak: <b>Steel McNeil</b> - Juneau: <b>Rhys Mateo</b>
<b>TEAM #9</b>	- 103 <sup>rd</sup> : <b>Dutchy Inman</b> - 103 <sup>rd</sup> : <b>Paul Oliver</b> - Kodiak: <b>Matt Stone</b> - Juneau: <b>Paul Hamby</b>
<b>DECON</b>	- Kodiak FD - Mat-Su: <b>David Burnos</b> - Mat-Su: <b>Brandon Korin</b> - Mat-Su: <b>John Perez</b>

## AK Shield 2014 Hazmat Exercise – Hazmat Entry Team Rotation Timeline

Start Time →	0900	1000	1100	1200	1300	1400	1500	1600	1800
Team 1	Ammonia #1	HAZCAT	ChemLab #1	Lunch	Break	Drums #1	Break	DEMOB	Debrief
Team 2	Ammonia #2	HAZCAT	ChemLab #2	Lunch	Break	Drums #2	Break		Best Western
Team 3	ChemLab #1	Break	Drums #1	Lunch	HAZCAT	Ammonia #1	Break		Harbor Room
Team 4	ChemLab #2	Break	Drums #2	Lunch	HAZCAT	Ammonia #2	Break		
Team 5	Drums #1	Break	Ammonia #1	Lunch	Break	ChemLab #1	HAZCAT		
Team 6	Drums #2	Break	Ammonia #2	Lunch	Break	ChemLab #2	HAZCAT		
Team 7	HAZCAT	Ammonia #1	Break	Lunch	ChemLab #1	Break	Drums #1		
Team 8	HAZCAT	Ammonia #2	Break	Lunch	ChemLab #2	Break	Drums #2		
Team 9	Break	ChemLab #1	HAZCAT	Lunch	Drums #1	Break	Ammonia #1		

### NOTES:

- One hour time slots represent total time available for each site entry.
- Things to accomplish during each one hour time slot:
  - Complete suiting up.
  - Enter hot zone.
  - Stabilize hazmat release.
  - Depart hot zone.
  - Decon. Only teams coming out of Chemical Lab Response sites will go through decon.
- When team departs hot zone, controllers will reset props for next entry team.
- After each entry is complete, put air bottles at drop site for refilling at Kodiak FD.

# Controllers:

Exercise Controllers will:

- Help guide the exercise and maintain the Level A Entry Team rotation timeline.
- Provide a RECON briefing to the entry team for the prop site.
- Assist team members with suiting up.
- Direct entry teams to the correct prop. Ammonia Response teams will be escorted.
- Collect and transfer the radios from the entry team to next entry team.
- Reset the hazmat props after each entry team departs the hot zone.
- Act as safety officers during the exercise.

Controllers will be located within the suit-up area and in the prop area. See Controller Organization Diagram below. Communications for controllers and support staff will be the use of portable Family Service Radios on a separate frequency. See page 14.

## AK Shield 2014 Hazmat Controllers – Organizational Diagram

### Evaluators/Facilitators:

Alan Wien - DEC  
Jim Mullican - ADQ  
Tyler Bones – FAI  
Don Werhonig - FAI  
Mike Carruthers

### Comms Support:

Frank Wesser – DEC  
Robert Blea - DEC

### Photographer:

Young Ha - DEC

### Ammonia Response

#### Controllers:

1. Mark Sielaff-DEC
2. Cheyenne Sanchez-DEC
3. Tom Demi-USCG
4. Kodiak FD

### Mobile Lab Response

#### Controllers:

1. Jared Gailey-85<sup>th</sup>
2. Raymond Sanchez-85<sup>th</sup>
3. Allen Hulse-DHSEM
4. Wendy Waller-JNU

### Drum Response

#### Controllers:

1. Rick Bernhardt-DEC
2. Brad Dunker-DEC
3. Bill St.Clair-USCG
4. Kodiak FD

### HAZCAT Demo

#### Controllers:

1. Carl Overpeck-EPA

## AK Shield 2014 – Communications Plan

DEC will provide ALMR radios for each entry team member, all pre-programmed as indicated in the below chart. Radios are designated to each suit-up tent and are to remain with that response scenario throughout the entire day. Each radio is color coded.

Zone C						
<u>CH Name</u>	<u>TG #</u>	<u>Rx Freq</u>	<u>Rx PL</u>	<u>Tx Freq</u>	<u>Tx PL</u>	<u>Hazmat Entry Teams/ Assignments</u>
C_Hail	1-8F17	136.0750	67.0	136.0250	67.0	HAIL FOR ALL BELOW TEAMS
IC2	2-8F18	136.0750	67.0	136.0250	67.0	HAZMAT INCIDENT COMMANDER
IC3	3-8F19	136.0750	67.0	136.0250	67.0	AMMONIA #1
IC4	4-8F1A	136.0750	67.0	136.0250	67.0	AMMONIA #2
IC5	5-8F1B	136.0750	67.0	136.0250	67.0	CHEM LAB #1
IC6	6-8F1C	136.0750	67.0	136.0250	67.0	CHEM LAB #2
IC7	7-8F1D	136.0750	67.0	136.0250	67.0	DRUMS #1
IC9	8-8F1E	136.0750	67.0	136.0250	67.0	DRUMS #2
ICMG	ATG	136.0750	67.0	136.0250	67.0	ALL TALK CONFERENCE FOR TEAMS
IC8SX		140.6125	67.0	140.6125	67.0	LINE-OF-SIGHT / SIMPLEX
IC10	9-8F21	136.0750	67.0	136.0250	67.0	
IC11	10-8F22	136.0750	67.0	136.0250	67.0	
IC12	11-8F23	136.0750	67.0	136.0250	67.0	
IC13	12-8F24	136.0750	67.0	136.0250	67.0	
IC14	13-8F25	136.0750	67.0	136.0250	67.0	
IC15	14-8F26	136.0750	67.0	136.0250	67.0	

Controllers and facilitators will be issued Family Service Radios which will be pre-programmed to Zone 1, Channel 1.

## Field Exercise On-Site Logistics:

**Parking:** There will be designated parking areas for participants, observers, and emergency response vehicles. See site plan diagram on page 9.

**Equipment Staging Area:** There will be designated staging areas for suit-up tents, shelter canopies, command, emergency response vehicles, and response sites in the exercise. See site plan diagram on page 9.

**SCBA Bottles:** The Kodiak Fire Department is able to refill Scott air bottles at the fire station. **All bottles transported to Kodiak need to be filled at the fire station prior to the exercise day.** Coordinate with Kodiak FD staff for this.

After each site entry is completed, air bottles will be transported to the Kodiak fire station for refilling. Kodiak FD staff will collect empty bottles at the designated drop site (see site plan diagram page 9) and return full bottles to the same location. Be sure your bottles are labelled for you to identify.

**Restroom Facilities:** Port-a-Pots will be located on-site for use during the exercise. See site plan diagram on page 9 for locations.

**Trash Cans:** Trash cans will be located on-site during the exercise.

**Drinking Water:** Bottled drinking water will be provided on-site for all participants.

**Lunch:** Lunch will be provided to participants from 12:00pm to 1:00pm at the shelter canopy area at the City dock. See site plan diagram on page 9.

**Thanks to our co-sponsor and Hazmat partner, Alaska West Express, for providing the lunch.**

**Media/Observers:** Media personnel and observers will view the exercise from a safe distance and will not interfere with the activities of the participants.

**Cleanup:** Following the exercise, all participating organizations will assist in general cleanup of the area to pre-exercise conditions.

## Medical Support:

All injuries and accidents, regardless of severity, need to be reported to the nearest controller. If any participant needs medical support for minor injuries and illnesses, medical support will be provided onsite by trained medical personnel.

In the event of a real medical emergency, prompt notification over all communications shall be **“This is a Real Emergency”** and exercise play will temporarily cease in the area of the emergency. Onsite



emergency medical staff will respond appropriately to determine the severity of the emergency and a MEDEVAC determination will be made. **CALL 911** – Kodiak EMS will respond as needed. Exercise play will resume after the emergency has been dealt with.

## Lodging:

Lodging is available at the Best Western Kodiak Inn, located at 236 Rezanof Drive, Kodiak, AK 99615. Phone number (907) 486-5712, Fax (907) 486-3430. A block of rooms has been reserved for hazmat team members and symposium attendees under the block name “Hazmat Symposium”. Each individual is responsible for contacting the hotel to make their own reservation. Each individual is responsible for paying for their own room. **BEST WESTERN IS FULL.**

If the Best Western Kodiak Inn is full, there are backup rooms available at the Shelikof Lodge, located at 211 Thorsheim Ave, Kodiak, AK 99615. Phone number (907) 486-4141, Fax (907) 486-4116. Ask for a room under the block name “Hazmat”. A map of the hotel locations is shown below.



## Meals:

All attendees are responsible for their own meals. On April 3 during the field exercise at the City Dock, lunch will be provided to participants by our co-sponsor of the event, Alaska West Express.

## Transportation:

All symposium attendees and exercise participants will provide for their own ground transportation in Kodiak. The Best Western Kodiak Inn and Shelikof Lodge both offer complimentary shuttle service between the airport and hotel.





## AK Shield 2014 Hazmat Symposium Evaluation

Kodiak, Alaska  
April 1-2, 2014



Please rate and provide any comments (negative and positive) on the following presentations, and include any recommendations for improvement.

### Day 1

Statewide Hazmat Team Activation Process				
Unsatisfactory	Poor	Satisfactory	Excellent	Outstanding
Comments:				

Hazmat Size-Up				
Unsatisfactory	Poor	Satisfactory	Excellent	Outstanding
Comments:				

<b>Hazmat Sampling</b>				
<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> Poor	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Excellent	<input type="checkbox"/> Outstanding
Comments:				

<b>Intermodal Tanks</b>				
<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> Poor	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Excellent	<input type="checkbox"/> Outstanding
Comments:				

<b>Hazmat Fire</b>				
<input type="checkbox"/> Unsatisfactory	<input type="checkbox"/> Poor	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Excellent	<input type="checkbox"/> Outstanding
Comments:				

**Overall Symposium Assessment:**

<input type="checkbox"/>	Unsatisfactory	<input type="checkbox"/>	Poor	<input type="checkbox"/>	Satisfactory	<input type="checkbox"/>	Excellent	<input type="checkbox"/>	Outstanding
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**Would you like to see future Hazmat symposiums like this held on a periodic basis?**

**What would you do to improve the symposium?**

**What training topics/exercises would you like to see addressed at future symposiums?**

**Thanks for participating in this survey.**



## **AK Shield 2014 Hazmat Field Exercise** **Evaluation**



**Kodiak, Alaska**  
**April 3, 2014**

**Thank you for participating in this Hazmat exercise. Your input is appreciated and will help us in planning for future exercises. Please complete the following:**

**Name (Optional):** \_\_\_\_\_

**Agency/Organization:** \_\_\_\_\_

**Position:** \_\_\_\_\_

**Exercise Role:**   ☐ Player   ☐ Controller/Facilitator   ☐ Observer   ☐ Evaluator

**Section I: Do you want to do this kind of Hazmat exercise again? If so, how would you make it different and/or better? (i.e., scenarios, types of chemicals, location, props)**


**Section II: Please provide up to 3 High points and 3 Low points you observed in the exercise. Also include your recommendation to correct the Low points.**

**High**

**High**

**High**

**Low**

**Low**

**Low**

**Thanks for your input.**

## Exercise Planning Team:

AK SHIELD 2014 HAZMAT EXERCISE PLANNING TEAM				
Individual	Organization	Email Address	Phone / Cell	
Tyler Bones	Fairbanks Hazmat	<a href="mailto:tyler.bones@fhr.com">tyler.bones@fhr.com</a>	328-4332 / 460-0123	
Jim Dennis	Anchorage Hazmat	<a href="mailto:dennisjl@muni.org">dennisjl@muni.org</a>	267-5052	
Joe Mishler	Juneau Hazmat	<a href="mailto:Joe_mishler@ci.juneau.ak.us">Joe_mishler@ci.juneau.ak.us</a>	586-0399	
Jim Mullican	Kodiak Hazmat	<a href="mailto:jmullican@city.kodiak.ak.us">jmullican@city.kodiak.ak.us</a>	486-8040	
Andy Tighe	Ketchikan Hazmat	<a href="mailto:andrewt@city.ketchikan.ak.us">andrewt@city.ketchikan.ak.us</a>	225-9616	
Don Werhonig	Fairbanks Hazmat	<a href="mailto:donw@awe.lynden.com">donw@awe.lynden.com</a>	328-4378	
Bob Whittier	EPA	<a href="mailto:Whittier.robert@epa.gov">Whittier.robert@epa.gov</a>	271-3247 / 830-7236	
Alan Wien	DEC PERP	<a href="mailto:Alan.wien@alaska.gov">Alan.wien@alaska.gov</a>	376-1865 / 631-2470	
Jim Yeo	103 <sup>rd</sup> CST	<a href="mailto:William.j.yeo6.mil@mail.mil">William.j.yeo6.mil@mail.mil</a>	433-5602 / 980-6093	